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### [1. 8.6.1X: Sensors for Environmental Observations and Measurements](#)

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: NOAA aims to improve the accuracy of observational data to meet the needs of all users by leveraging advanced technologies, following best practices, and fostering the use of national/international standards and traceability. This objective entails creating prototype sensors and methodologies that provide new technologies for detection, increased measurement accuracy, and impr ...

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### [2. 8.2: Healthy Oceans](#)

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

DOC SBIR NOAA-2015-1 Affordable Robust Nonlinear Towed Hydrophone Arrays New Observing Platform for Monitoring Fish Larval Trajectories 8.2 DOC SBIR NOAA-2015-1 ...

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### [3. 8.2.1F: Affordable Robust Nonlinear Towed Hydrophone Arrays](#)

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Passive acoustics has been increasingly used for population estimation during shipboard cetacean surveys conducted by NMFS Science Centers. Towed linear arrays are well-developed but are limited in their ability to provide real-time 3D localization. This is important for application to deep-diving species such as beaked whales, and for real-time localization of a single ...

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#### **[4. 8.2.2R: New Observing Platform for Monitoring Fish Larval Trajectories](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: The Caribbean Sea, Gulf of Mexico, and Straits of Florida contain spawning areas for a number of ecologically and economically important reef, mesopelagic, and pelagic fish species. However, little is known regarding the transport and distribution of fish larvae throughout the area. Understanding the degree of biological connectivity between remote marine areas by means ...

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#### **[5. 8.3: Climate Adaptation and Mitigation](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

DOC SBIR NOAA-2015-1 Probability Forecasts of Business Impact Variables from CFS2 Ensembles 8.3 DOC SBIR NOAA-2015-1 ...

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#### **[6. 8.3.1C: Probability Forecasts of Business Impact Variables from CFS2 Ensembles](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Many climate-sensitive businesses and activities focus on variables that could be derived from the wide range of meteorological variables produced by the NWS Climate Forecast System v2 (CFS2). Examples include degree-days in energy and agriculture, potential wind and solar power in renewable energy, and wildfire risk in wildland management. To serve such business us ...

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#### **[7. 8.4: Weather-Ready Nation](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

DOC SBIR NOAA-2015-1 Monitoring Active Region Development on the Far-Side of the Sun

Ultrasonic Anemometers/Thermometers with Increased Spatial Resolution Accurate Nightlight for Satellite Calibration for Weather and Climate Applications 8.4 DOC SBIR NOAA ...

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## **8. [8.4.1W: Monitoring Active Region Development on the Far-Side of the Sun](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Space weather impacts a growing number of technologies that our society depends on. The need for space weather forecasts arose in the 1940s when the first radio communications were established. The Department of Defense relies on many technologies, such as early warning radars and satellite navigation, that are susceptible to space weather. The list of civil activities that are impacted ...

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## **9. [8.4.2R: Ultrasonic Anemometers/Thermometers with Increased Spatial Resolution](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Ultrasonic anemometers/thermometers are commercially produced, robust instruments for measurements of temperature and velocity. Much of the progress in the boundary layer meteorology over the last few decades can be attributed to the wide use of these instruments. Due to concerns about wind distortion, the transducers of an ultrasonic anemometer are located at some distance from each ...

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## **10. [8.4.3D: Accurate Nightlight for Satellite Calibration for Weather and Climate Applications](#)**

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: The excellent on-orbit performance of the Suomi NPP VIIRS Day Night Band (DNB) ushers in a new era of low light imaging at night. Its extreme sensitivity to low lights has already been demonstrated in numerous emerging applications, e.g., the rescue of a Bering Sea Fleet crab fishing vessel trapped in ice in the winter of 2013 in Alaska. This unprecedented capability heavily d ...

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